(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

PCT

(10) International Publication Number WO 2005/058088 A3

(51) International Patent Classification⁷:

A45B 23/00

(21) International Application Number:

PCT/GB2004/005351

(22) International Filing Date:

20 December 2004 (20.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0329513.6

19 December 2003 (19.12.2003) GB

- (71) Applicant (for all designated States except US): HOY-LAND FOX LIMITED [GB/GB]; Manchester Road, Millhouse Green, Penistone, Sheffield S36 9NR (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): EARNSHAW, John, Michael [GB/GB]; 74 Carr Hill Road, Upper Cumberworth, Huddersfield HD8 8XN (GB).
- (74) Agent: GIBBS, Christopher, Stephen; Haseltine Lake, 15-19 Kingsway, London WC2B 6UD (GB).

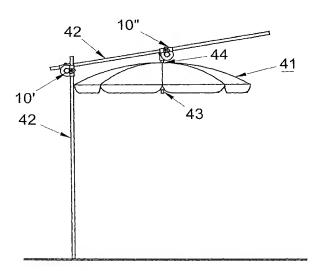
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: PENDULUM UMBRELLA



(57) Abstract: A clamp (10) for holding two elongate members (23a, 23b), so that they extend at a preset angle from each other, comprises two clamp portions (12, 14) each having co-operating engaging surfaces (16a, 16b), each clamp portion having a co-axial bore (18a, 18b) extending perpendicularly to the engaging surfaces and a receiving portion for holding one of the elongate members; a stem or rod (19), passing through the bore of the clamp portions and attached at one end to a lever or handle (20) for rotating the stem in the bore, and a cam acting between the stem and at least one of the clamp portions so that the clamp portions can be moved from a position in which the engaging surfaces are not engaged to a position in which the engaging surfaces co-operatively engage by rotating the lever by approximately 90°.



(88) Date of publication of the international search report: 25 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.